5   hGAD65up 5' ATATATCTCGAGATGGCATCTCGGGGCTC 3') (SEQ ID NO: 1)

hGAD65lo (5' GCGCGCGAATTCTTATAAATCTTGTCCAAGGCG 3') (SEQ ID NO: 2).

10   hGAD67up (5' TATATCTCGAGATGGCGTCTTCGACCCA 3') (SEQ ID NO: 3)

hGAD67lo (5' CAGCTGAATTCTTACAGATCCTGGCCCAG 3') (SEQ ID NO: 4)

INS1 (5' Gtt ttg gga cgt ttc ctg agt cag gtg agt cta tgg gac cct tga tg 3') (SEQ ID NO:5)

15

INA2 (5' cag ttt ttc gcg aat ctg tgg gag gaa gat aag agg tat g 3') (SEQ ID NO:6)

VS1 (5' ccg tgg ccg aga agc tgc agc gcg act ttc 3') (SEQ ID NO:7)

20   INA1 (5' cat caa ggg tcc cat aga ctc acc tga ctc agg aaa cgt ccc aaa ac 3') (SEQ ID NO:8)

D2 (5' cca cca cca cca aag ccc gca ggt gag tct atg gga ccc ttg at 3') (SEQ ID NO: 9)

D4 (5' cct gct gtc gtc ctt atg ccg ctc tgt ggg agg aag ata aga ggt 3') (SEQ ID NO: 10).

25

XF (5' agt ctc tag agt cct gta tta gag gtc acg 3') (SEQ ID NO: 11)

D2 (5' atc aag ggt ccc ata gac tca cct gcg ggc ttt ggt ggt ggt gg 3') (SEQ ID NO: 12).

30   D3 (5' acc tct tat ctt cct ccc aca gag cgg cat aag gac gac agc agg 3') (SEQ ID NO: 13)

XR (5' cgg gtg acg tag tag tct aga gca tgg aaa 3') (SEQ ID NO: 14)

forward primer 5'-TGGCGTGGTGTGCACTGT-3' (SEQ ID NO: 15)

35

reverse primer 5'-GTTCCGCCGTGGCAATAG-3' (SEQ ID NO: 16)

5'-6FAM-TCCGGGACTTTCGCTTTCCCCC-TAMRA-3' SEQ ID NO: 17)